

Notice of Allowability	Application No. Applicant(s)		
	09/478,567	RAO ET AL.	
	Examiner	Art Unit	<del></del>
	Russell Kallis	1638	
The MAILING DATE of this communication apperalled allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is selected and MPEP 1308.	th the correspondence address this application. If not included unication will be mailed in due course.	THIS initiative
2. The allowed claim(s) is/are <u>1-2,5-9,11,14-20 renumbered 1-15</u> .			
3.   The drawings filed on 09 August 2004 and 21 January 200	05 are accepted by the Exam	iner.	
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority unall All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Applicatio	n No	the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file IENT of this application.	a reply complying with the requiremen	ıts
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXA	MINER'S AMENDMENT or NOTICE C declaration is deficient.	)F
6. CORRECTED DRAWINGS ( as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same paper should be labeled as such in the same paper should be labeled.	son's Patent Drawing Review . s Amendment / Comment or .84(c)) should be written on the	in the Office action of e drawings in the front (not the back) of R 1.121(d).	
7. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	RIAL must be submitted. Note the LOGICAL MATERIAL.	
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ⊠ Interview Su Paper No./I 8), 7. ⊠ Examiner's /	ormal Patent Application (PTO-152) mmary (PTO-413), Mail Date 2/16/2005. Amendment/Comment Statement of Reasons for Allowance	

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## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Leigh Thorne on 2/25/2005.

The application has been amended as follows:

Claims 3 and 10 have been canceled.

In the claims:

Claim 1. (currently amended) A nucleic acid molecule comprising a nucleotide sequence which encodes an engineered VSP $\beta$  protein comprising an amino acid sequence which differs from the amino acid sequence of [a] the native VSP $\beta$  protein, wherein said engineered protein has an altered amino acid composition in comparison to said native protein, wherein said altered amino acid composition comprises an increase in the content of an essential amino acid selected from the group consisting of methionine, leucine, isoleucine and valine [content] to at least about 5% to about 10% [of the amino acid content of said engineered protein,] compared to said native protein and wherein said engineered protein binds to at least one antibody, monoclonal antibody, or antibody fragment, which binds to said native VSP $\beta$  protein, wherein said native VSP $\beta$  protein is [VSP $\beta$  as] the protein set forth in SEO ID NO: 1.

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Claim 2. (currently amended) The nucleic acid molecule of claim 1, wherein said [altered amino acid composition comprises an] increase in <u>an</u> essential amino acid [content] <u>is</u> to at least about 10%.

In Claim 6, line 2, change "Claim 3" to --Claim 1--.

Claim 8. (currently amended) A stably transformed plant having inserted into its genome a nucleotide sequence which encodes an engineered VSP $\beta$  protein comprising an amino acid sequence which differs from the amino acid sequence of [a] the native VSP $\beta$  protein, wherein said engineered protein has an altered amino acid composition in comparison to said native protein, wherein said altered amino acid composition comprises an increase in the content of an essential amino acid selected from the group consisting of methionine, leucine, isoleucine and valine [content] to at least about 5% to about 10% [of the amino acid content of said engineered protein,] compared to said native protein and wherein said engineered protein binds to at least one antibody, monoclonal antibody, or antibody fragment, which binds to said native VSP $\beta$  protein, wherein said native VSP $\beta$  protein is [VSP $\beta$  as] the protein set forth in SEO ID NO: 1.

Claim 9. (currently amended) The plant of Claim 8, wherein said [altered amino acid composition comprises an] increase in an essential amino acid [content] is to at least about 10%.

Claim 11. (currently amended) The plant of Claim 8, wherein said [altered amino acid composition comprises an] increase in the content of an essential amino acid is an increase in methionine content to at least about 10%.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kallis whose telephone number is (571) 272-0798. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson can be reached on (571) 272-0804. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Russell Kallis Ph.D. February 16, 2005

ELIZABETH MCELWAIN PRIMARY EXAMINER

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